

Claims

1. Oil deaeration device (10) that comprises a base (11) and an oil housing (26), said base (11) being equipped with a first and a second inlet (12, 14), an outlet (13), a float (35) provided in the oil housing (26) and a diaphragm (18) provided in the oil housing (26), that the oil housing (26) is divided into two chambers (29, 30); that the float (35) is provided in a first chamber (29), and that a further float (39) is provided in a second chamber (30),
c h a r a c t e r i z e d in that the diaphragm (18) on one side is connected to the first chamber (29), that the diaphragm (18) on its other side is connected to the second chamber (30), that a safety valve (50, 51; 150, 151) is provided in connection with the outlet (13), and that the safety valve (50, 51; 150, 151) communicates with the outlet (13) in its open position.
2. Oil deaeration device according to claim 1,
c h a r a c t e r i z e d in that the safety valve (50, 51; 150, 151) is provided in the base (11; 111).
3. Oil deaeration device according to claim 1 or 2,
c h a r a c t e r i z e d in that a first valve opening (38) is provided between the chambers (29, 30), and that the float (35) that is provided in the first chamber (29) is equipped with means (37) to close said valve opening (38) when the float (35) assumes an elevated position.
4. Oil deaeration device according to any of the previous claims, c h a r a c t e r i z e d in that the oil housing (26) comprises a cover (27) that in its upper portion has a second valve opening (41), and that the further float (39) is equipped with means to close said second valve opening (41) when the further float (39) assumes an elevated position.
5. Oil deaeration device according to any of the previous claims, c h a r a c t e r i z e d in that the diaphragm (18) is affected by a first spring (23) that strives to urge the

diaphragm (18) to abutment against a second opening (46; 146) in the base (11), and that the second opening (46; 146) in free position connects the first inlet (12) with the outlet (13).

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6. Oil deaeration device according to any of the previous claims, c h a r a c t e r i z e d in that the safety valve (50, 51; 150, 151), in closed position, is designed to expose a first surface for the pressure to act upon, that in open
10 position the safety valve (50, 51; 150, 151) exposes a second surface for the pressure to act upon, and that the second surface is larger than the first surface.

7. Oil deaeration device according to claim 6,
15 c h a r a c t e r i z e d in that the first surface is incorporated in the second surface.

8. Oil deaeration device according to any of the previous claims, c h a r a c t e r i z e d in that the safety valve
20 (50, 51; 150, 151) is equipped with at least one O-ring (53; 153).